



Drive systems

Ratio-Drive® – it's just what you need!



Eingal

etheltskonzept und Riskobeu



Ratio-Drive[®] drive system

Are you working in the field of drive technology and need a comprehensive solution or you would like to optimise an existing solution?

We can provide you with an individual solution, whatever your line of business. Consulting service, engineering, implementation – all under one roof. And in good hands.

Hänchen. Choose your modules.

By choosing Hänchen as your partner, you get an individual drive solution adapted to your needs, which can be embedded seamlessly into your application.

Together with you, we define the required functions and services, and determine which hardware and software makes the most sense.

Safety features

Machinery Directive CE conformity Safety-related software up to PLe

Services

Engineering/Planning Start-up After sales service

Software

HMI (Human Machine Interface) Communication with the process level Feedback control engineering Control software

□ Drive technology

Electric actuator Hydraulic actuator

Real-time control

Sensor technology

2 3

- Hydraulic pressure supply

Measuring, control & feedback control engineering

- Measured value recording

Construction & integration

- Hydraulic system installation
- Control cabinet construction





What are you driven by? Hybrid, hydraulic, electric.

Thanks to our drive system Ratio-Drive®, we are able to provide you with the best solution for your task with the possibility of expansion whenever needed.

+ 1 to n axles in the field

Communication between the host computer and the axles can be easily achieved using fieldbus systems. Standardised bus protocols and standardised connection technology ensure cross-manufacturer compatibility. Fieldbus systems offer advantages in:

- Automation of a movement process
- Integration in control circuits of cylinder, motor and sensor technology
- Flexible expandability

+ Hydraulic or electric

Every technology has its advantages. As a company that is deeply rooted in hydraulics, our expertise extends to both electric and hydraulic drives. This makes it easy for us to choose the right module for your requirements.

We coordinate all components optimally and make sure that your drive system is energy-efficient and state-of-the-art.

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Control concept	+
Diagnostic capability	+
Reliability against faults	++
Achievable safety level	PLe
Speed-load dependability	No

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EtherCAT/ProfiNet

Ethernet

@/) You can find out more about the

Ratio-Drive® by visiting www.haenchen.com Don't hesitate to contact us – we will be pleased to advise you!





for acoustic measurements

Steel mill > production	Mechanical engineering > production	Automotive > testing machine	Heating engine
The mould oscillation system prevents	The end-of-line machines subject	The vehicle steering test stand	The material to
the metal from adhering to the ingot	each finished hydraulic cylinder to	simulates loads that occur	serves for tes
mould wall during the cooling process.	a final inspection.	during the journey.	mulators for h
Technical implementation and Hänchen share			
At an amplitude of 5 mm and a frequency	The respective sequence of the pressure	The axial load transmission is performed	Pulsation of up to
of up to 5 Hz, four cylinders move the ingot	test starts automatically after the product	by cylinders. Sine movements of 2 mm	applied to the te
mould in the controlled sine. The high-precision	bar code is scanned. The hydraulic pressure	at 50 Hz as well as freely definable	pressure reduce
synchronisin deviation is max. 30 µm.			
🕂 Special I&C technology	+ Connection to the ERP system	+ Connection of the customer-side	🕂 Integration in
🕂 Connection to central hydraulics	🕇 Automatic data collection	measuring system	computer
		🛨 Hydraulic accumulator system	🕂 🕂 🕂 🕂

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eering > test facility testing machine sting water accuneating systems.

Shipbuilding > test stand The heavy load test stand tests the hydrostatic plain bearings of a ship's shaft for pod drives.

o 20 Hz at 20 bar is st specimen via a r. Normal tap water st fluid.

the process control

n an existing system

Hydraulic cylinders simulate the axial and radial loading of the ship's shaft up to 2.5 MN. The shaft is driven by an electric motor.

- Synchronous measurement acquisition
- Connection of the customer-side measuring system

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